



Department of the Environment  
Vehicle Emissions Inspection Program

# Training Class Information

## Course Descriptions for June 2013 Training

---

### *Vehicle Communication and Multiplexing: Operation, Fault Diagnosis & Repair Verification*

This course will cover normal operation of CAN (controller area network) communication networks and how it is used to share information between automotive control modules. It will also cover the diagnosis and repair of various CAN system faults including: Uxxx communication codes, open circuits, shorts to ground, shorts to power, and faulty control modules. Upon completion the technicians will be able to better understand CAN and other operating logic, diagnose system failures resulting in no communication with the scan tool and circuit malfunctions. A comprehensive evaluation of ISO 9141, SAE J1850 protocol and other networks utilized by Domestic and Import manufacturers used on today's vehicles will also be discussed. An introduction to oscilloscope usage in network fault codes diagnoses will be discussed and demonstrated during lab activities.

#### **Dates:**

Friday June 14, 2013 9:30 AM - 5:30 PM  
Saturday June 15, 2013 8:00 AM - 4:00 PM

Please contact Margie Wise with MDE to register for **one or both courses**. She may be reached at (410) 537-3197 or by e-mail [mwise@mde.state.md.us](mailto:mwise@mde.state.md.us). The training sessions will be held at the Homer S. Gudelsky Institute for Technical Education of the Rockville Campus of Montgomery College. For directions to the Homer S. Gudelsky Institute for Technical Education of the Rockville Campus of Montgomery College, call 240-567-5000 or please visit the following website.

<http://cms.montgomerycollege.edu/edu/maps.aspx?id=23746>